

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P836456

Luminaire Tested: **ARCH3-190-722-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-190-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14703 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 189.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

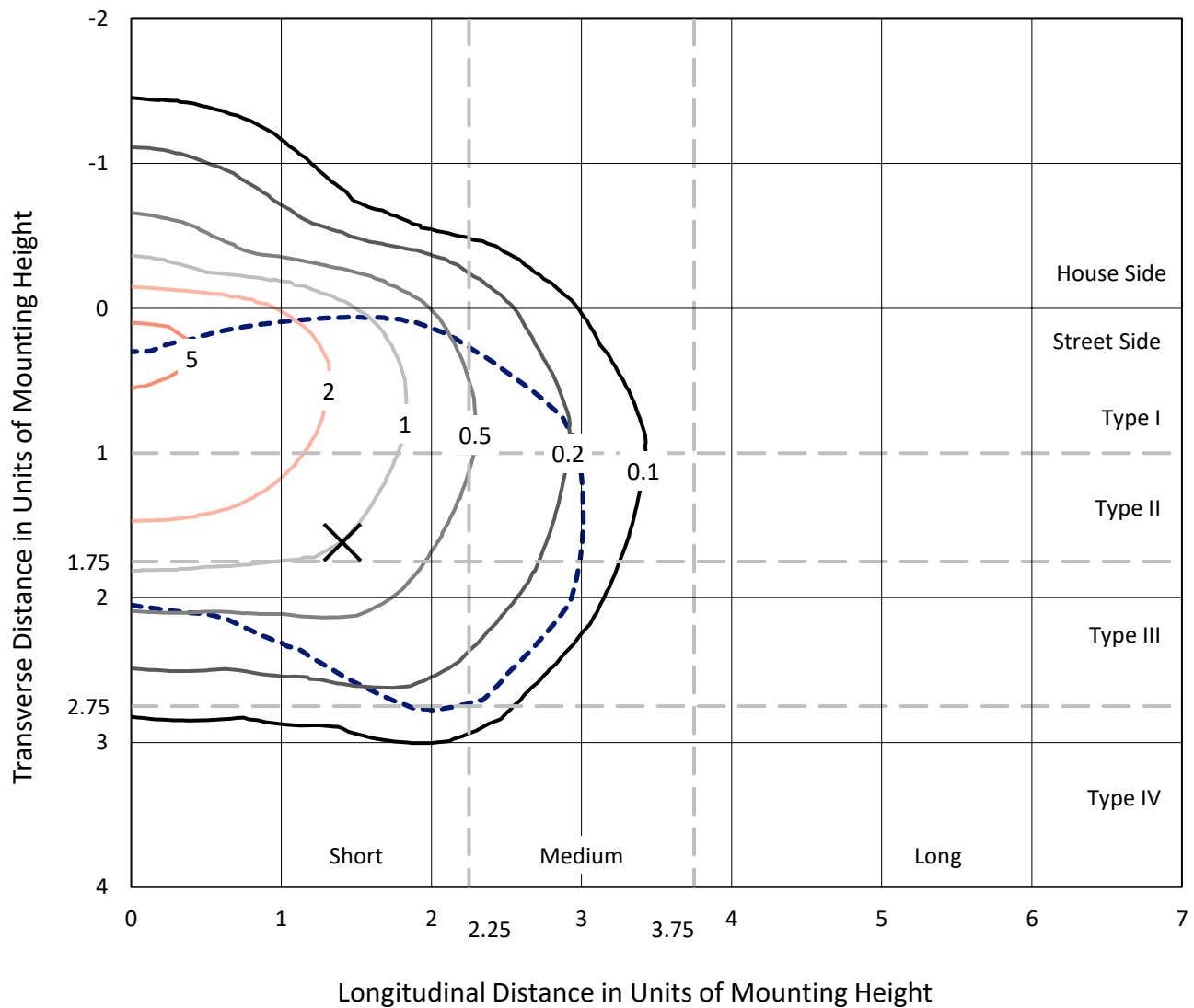


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

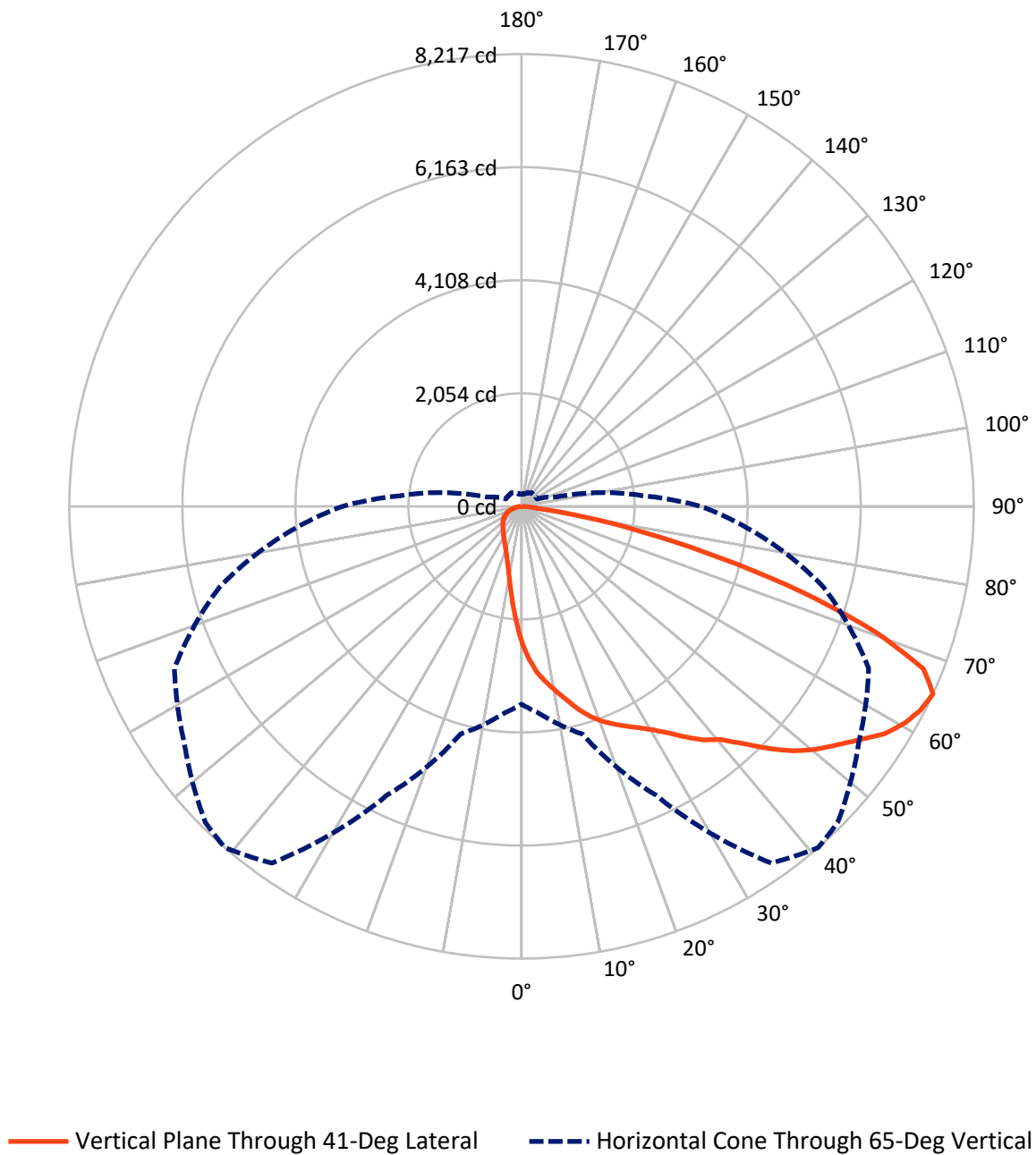


Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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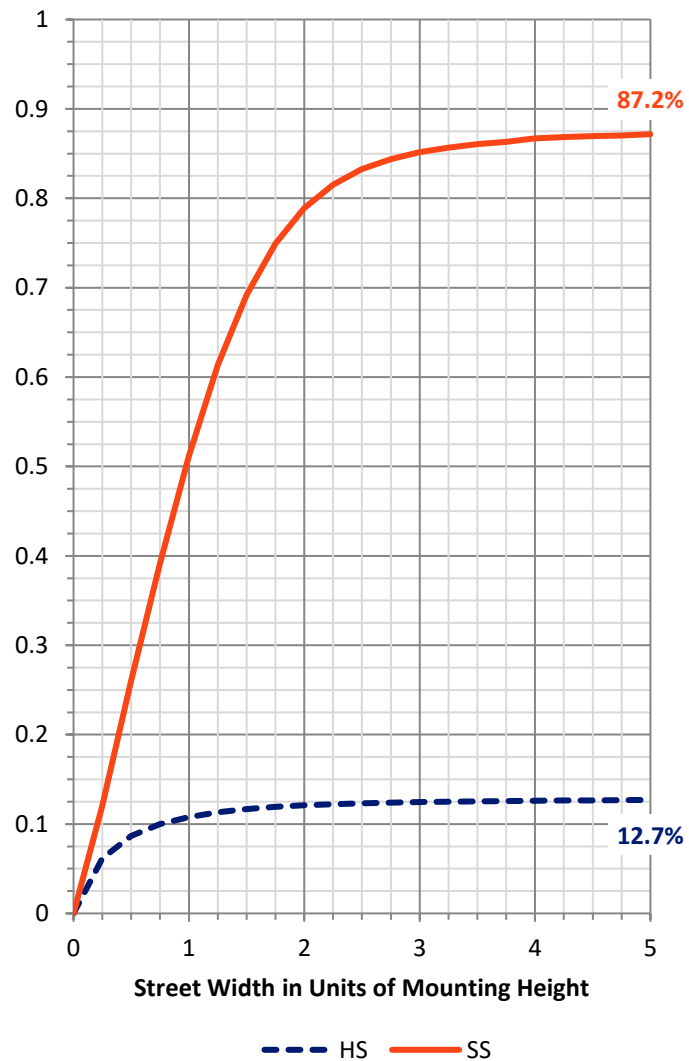
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1887.6	0.0	1887.6
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	12815.4	0.0	12815.4
	% Fixture	87.2	0.0	87.2
Total	Lumens	14703.0	0.0	14703.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.4	1.6
10°-20°	700.0	4.8
20°-30°	1204.2	8.2
30°-40°	1826.3	12.4
40°-50°	2675.6	18.2
50°-60°	3378.7	23.0
60°-70°	3168.2	21.5
70°-80°	1412.0	9.6
80°-90°	104.6	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14703.0	100.0
0°-180°	14703.0	100.0

Coefficient of Utilization



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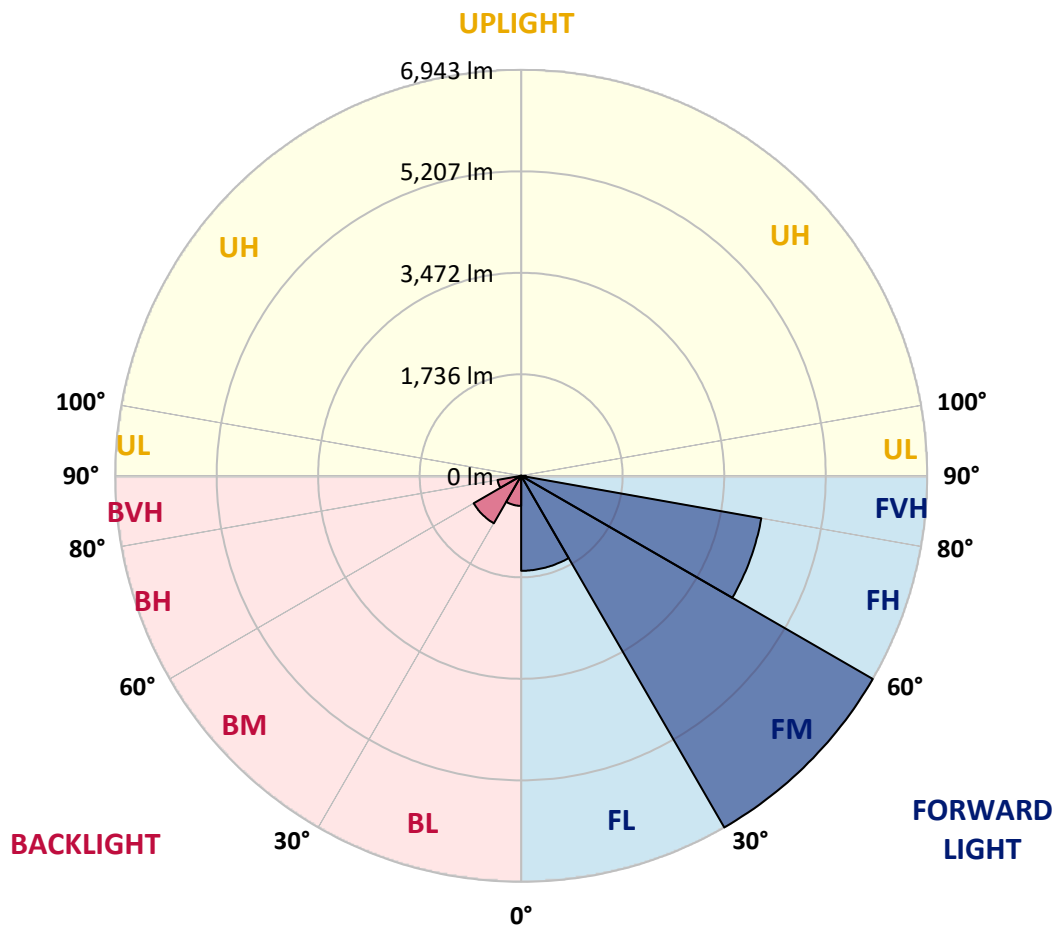
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1623.8	11.0			
FM	(30°-60°)	6943.3	47.2			
FH	(60°-80°)	4170.2	28.4			G2/5000
FVH	(80°-90°)	78.1	0.5			G1/100
BL	(0°-30°)	513.8	3.5	B2/1000		
BM	(30°-60°)	937.3	6.4	B1/1000		
BH	(60°-80°)	410.0	2.8	B1/500		G1/500
BVH	(80°-90°)	26.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2505.3	2505.3	2505.3	2505.3	2505.3	2505.3	2505.3	2505.3	2505.3	2505.3	2505.3
2.5°	2889.8	2880.5	2874.3	2840.2	2840.2	2793.7	2796.8	2753.4	2700.7	2616.9	2527.0
5°	3162.6	3150.2	3134.7	3100.6	3088.2	3041.7	3035.5	2973.5	2883.6	2737.9	2576.6
7.5°	3401.4	3389.0	3367.3	3317.7	3283.6	3227.8	3212.3	3131.6	3032.4	2852.6	2626.2
10°	3618.4	3609.1	3581.2	3519.2	3472.7	3404.5	3376.6	3268.1	3144.0	2945.6	2666.5
12.5°	3838.6	3826.2	3789.0	3736.3	3680.5	3599.8	3565.7	3426.2	3268.1	3047.9	2725.5
15°	4043.2	4024.6	3996.7	3940.9	3891.3	3813.8	3776.6	3612.2	3420.0	3162.6	2803.0
17.5°	4176.6	4161.1	4136.2	4105.2	4064.9	4006.0	3968.8	3807.6	3571.9	3274.3	2883.6
20°	4257.2	4251.0	4241.7	4223.1	4204.5	4164.2	4136.2	3984.3	3736.3	3382.8	2961.1
22.5°	4319.2	4313.0	4309.9	4309.9	4313.0	4297.5	4278.9	4148.7	3894.4	3497.5	3032.4
25°	4415.3	4412.2	4406.0	4399.8	4421.5	4424.6	4418.4	4328.5	4092.8	3649.4	3122.3
27.5°	4548.6	4539.3	4526.9	4520.7	4542.4	4557.9	4570.3	4508.3	4303.7	3804.5	3224.7
30°	4753.3	4725.4	4694.4	4672.7	4688.2	4713.0	4740.9	4703.7	4520.7	3996.7	3330.1
32.5°	4995.1	4961.0	4889.7	4849.4	4889.7	4908.3	4930.0	4911.4	4747.1	4204.5	3435.5
35°	5289.7	5249.4	5175.0	5116.1	5187.4	5147.1	5137.8	5119.2	4961.0	4409.1	3553.3
37.5°	5779.6	5720.7	5602.9	5472.6	5472.6	5385.8	5351.7	5295.9	5153.3	4592.0	3668.1
40°	6347.0	6269.5	6117.6	5925.3	5748.6	5568.7	5547.0	5506.7	5379.6	4802.9	3798.3
42.5°	6970.2	6821.4	6610.6	6378.0	6092.8	5888.1	5838.5	5723.8	5599.7	5016.8	3928.5
45°	7661.7	7351.6	7044.6	6926.8	6455.5	6269.5	6176.5	5968.7	5829.2	5240.1	4064.9
47.5°	7773.3	7531.4	7326.8	7308.2	6793.5	6638.5	6533.0	6235.4	6077.2	5478.8	4207.6
50°	7711.3	7565.6	7587.3	7512.8	7041.5	6939.2	6858.6	6520.6	6322.2	5708.3	4337.8
52.5°	7450.8	7531.4	7655.5	7519.0	7277.2	7193.5	7153.2	6827.6	6551.6	5919.1	4455.6
55°	7140.8	7196.6	7463.2	7630.7	7550.0	7475.6	7438.4	7184.2	6778.0	6095.9	4564.1
57.5°	6688.1	6663.3	6957.8	7612.1	7835.3	7791.9	7751.6	7534.5	6988.8	6223.0	4632.4
60°	6009.0	5956.3	6328.4	7240.0	7928.3	7996.5	7977.9	7767.1	7150.1	6219.9	4604.4
62.5°	4833.9	4964.1	5478.8	6632.3	7968.6	8142.3	8108.2	7785.7	7202.8	6040.0	4427.7
65°	3593.6	3779.7	4285.1	5795.1	7912.8	8216.7	8123.7	7481.8	6957.8	5683.5	4040.1
67.5°	2589.0	2753.4	3122.3	4768.8	7376.4	7875.6	7767.1	6985.7	6393.5	5178.1	3503.7
70°	1770.5	1888.3	2139.4	3472.7	6297.4	6809.0	6740.8	6244.7	5503.6	4576.5	2846.4
72.5°	1249.6	1299.2	1460.4	2291.4	4784.3	5342.4	5261.8	5137.8	4421.5	3804.5	2213.9
75°	936.4	967.4	1054.2	1482.1	3227.8	3702.2	3627.7	3699.1	3302.2	2880.5	1612.3
77.5°	353.5	384.5	598.4	945.7	1910.0	2272.8	2198.4	2241.8	1835.6	1454.2	803.1
80°	96.1	102.3	198.4	449.6	868.2	1131.7	1029.4	883.7	682.1	669.7	424.8
82.5°	40.3	46.5	89.9	241.8	310.1	310.1	260.5	322.5	260.5	313.2	204.6
85°	15.5	18.6	21.7	62.0	40.3	43.4	46.5	62.0	52.7	65.1	46.5
87.5°	0.0	0.0	0.0	3.1	3.1	6.2	3.1	6.2	9.3	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2505.3	2505.3	2505.3	2505.3	2505.3	2505.3	2505.3	2505.3	2505.3	2505.3	2505.3
2.5°	2489.8	2455.7	2406.1	2325.5	2241.8	2195.3	2136.3	2127.0	2065.0	2058.8	2034.0
5°	2505.3	2434.0	2306.9	2151.8	1999.9	1882.1	1795.3	1748.8	1658.8	1658.8	1634.0
7.5°	2517.7	2406.1	2201.5	1972.0	1764.3	1606.1	1488.3	1438.7	1358.1	1351.9	1333.3
10°	2520.8	2372.0	2086.7	1789.1	1534.8	1373.6	1258.9	1203.0	1131.7	1125.5	1113.1
12.5°	2545.6	2353.4	1984.4	1630.9	1370.5	1196.8	1085.2	1038.7	982.9	976.7	964.3
15°	2585.9	2353.4	1897.6	1497.6	1224.8	1063.5	967.4	924.0	883.7	877.5	871.3
17.5°	2626.2	2347.2	1810.8	1373.6	1103.8	958.1	874.4	840.3	809.3	806.2	800.0
20°	2663.4	2344.1	1724.0	1268.2	1010.8	871.3	806.2	775.2	750.4	750.4	747.3
22.5°	2700.7	2337.9	1640.2	1168.9	930.2	806.2	750.4	716.2	697.6	697.6	694.5
25°	2756.5	2337.9	1562.7	1085.2	865.1	756.6	700.7	675.9	660.4	657.3	657.3
27.5°	2821.6	2356.5	1494.5	1010.8	809.3	706.9	663.5	638.7	620.1	613.9	617.0
30°	2892.9	2372.0	1432.5	945.7	756.6	669.7	623.2	598.4	579.8	573.6	576.7
32.5°	2964.2	2390.6	1376.7	886.8	703.8	635.6	589.1	561.2	542.6	539.5	539.5
35°	3041.7	2409.2	1320.9	837.2	660.4	601.5	558.1	527.1	514.7	508.5	511.6
37.5°	3119.2	2440.2	1268.2	790.7	629.4	570.5	530.2	499.2	489.9	486.8	486.8
40°	3212.3	2486.7	1246.5	759.7	601.5	542.6	508.5	477.5	468.2	468.2	468.2
42.5°	3289.8	2523.9	1227.9	725.5	579.8	517.8	486.8	462.0	455.8	452.7	455.8
45°	3367.3	2558.0	1203.0	694.5	551.9	493.0	468.2	443.4	437.2	437.2	437.2
47.5°	3444.8	2576.6	1168.9	663.5	527.1	471.3	449.6	427.9	421.7	421.7	421.7
50°	3506.8	2592.1	1119.3	629.4	499.2	452.7	431.0	409.3	403.1	403.1	403.1
52.5°	3568.8	2595.2	1066.6	589.1	471.3	431.0	412.4	390.7	384.5	381.4	381.4
55°	3624.6	2592.1	1004.6	542.6	440.3	406.2	390.7	372.1	359.7	347.3	353.5
57.5°	3665.0	2589.0	933.3	496.1	409.3	381.4	375.2	350.4	325.6	294.6	300.8
60°	3649.4	2554.9	855.8	437.2	375.2	356.6	356.6	322.5	279.1	263.6	266.7
62.5°	3550.2	2458.8	775.2	375.2	341.1	331.8	328.7	291.5	257.4	241.8	245.0
65°	3252.6	2217.0	657.3	319.4	307.0	303.9	303.9	269.8	238.7	220.1	223.2
67.5°	2799.9	1860.4	536.4	269.8	272.9	279.1	279.1	248.1	217.0	198.4	201.5
70°	2244.9	1454.2	427.9	232.5	235.6	245.0	251.2	223.2	195.3	176.7	176.7
72.5°	1689.8	1103.8	344.2	195.3	210.8	210.8	220.1	198.4	170.5	151.9	155.0
75°	1224.8	790.7	272.9	164.3	182.9	179.8	179.8	167.4	145.7	133.3	133.3
77.5°	579.8	415.5	217.0	117.8	142.6	139.5	142.6	133.3	124.0	111.6	114.7
80°	285.3	204.6	139.5	83.7	99.2	102.3	111.6	105.4	102.3	93.0	93.0
82.5°	136.4	80.6	65.1	58.9	68.2	71.3	77.5	77.5	80.6	74.4	74.4
85°	37.2	21.7	27.9	37.2	43.4	46.5	52.7	55.8	55.8	52.7	55.8
87.5°	9.3	9.3	12.4	18.6	21.7	24.8	27.9	27.9	12.4	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)